

Form PTO-1449
(Rev. 8-83)

U.S. Department of Commerce
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Serial No.
826,809

Group Art Unit

1646

Filing Date

4-17-04

1 of 2
Atty. Docket No.

MSB-7273-D1

INFORMATION DISCLOSURE CITATION

Applicant(s) Armen B. Shanafelt

U.S. PATENT DOCUMENTS

*		DOCUMENT NO.	DATE	NAME	CLASS	SUB-CLASS	FILING DATE IF APPROPRIATE

FOREIGN PATENT DOCUMENTS

*		DOCUMENT NO.							DATE	COUNTRY	CLASS	SUB-CLASS	TRANSLATION	
													YES	NO
PM	M	0	2	6	7	7	9	5	05/18/88	EP	C07K	13/00		
PM	N	0	1	6	3	2	4	9	12/04/85	EP	C12N	15/00		X
PM	O	0	1	1	9	6	2	1	09/26/84	EP	C12N	15/00		

OTHER REFERENCES (Including Author, Title, Date, Pertinent Pages, etc.)

PM	S	Zurawski S.M. and Zurawski G., Receptor antagonist and selective agonist derivatives of mouse interleukin-2, Embo.J., 11(11): 3905-3910 (1992)
	T	Zurawski et al., Definition and spatial location of mouse interleukin-2 residues that interact with its heterotrimeric receptor, Embo.J., 12(13): 5113-5119 (1993)
	U	Thèze et al., Interleukin 2 and its receptors: recent advances and new immunological functions, Immunol. Today, 17(10): 481-486 (1996)
	V	Xu et al., Biological and receptor-binding activities of human interleukin-2 mutated at residues 20Asp, 125Cys or 127Ser, Eur.Cytokine Netw., 6(4): 237-244 (1995)
	W	Jacobson et al., Rational interleukin 2 therapy for HIV positive individuals: Daily low doses enhance immune function without toxicity, Proc.Natl.Sci., 93: 10405-10410 (1996)
	X	Smith K. A., Lowest Dose Interleukin-2 Immunotherapy, Blood, 81(6): 1414-1423 (1993)
	Y	Kaplan et al., Rational Immunotherapy with Interleukin 2, Biotech., 10(2): 157-162 (1992)
	Z	Buchli et al., Structural and Biologic Properties of a Human Aspartic Acid-126 Interleukin-2 Analog, Arch.Biochem. Biophys., 307(2): 411-415 (1993)
	AA	Cellular and Molecular Immunology, Abbas et al., eds., 1997, W.B. Saunders Company, Chapter 12, Cytokines, pp. 250-267
✓	BB	Immunology, Roitt et al., eds., 1996, pp. 8.8-8.16, Fourth Edition, Mosby

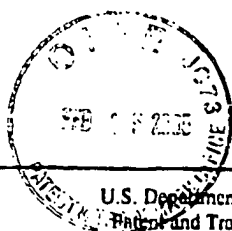
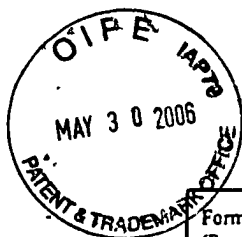
EXAMINER

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2 of 2

Applicant(s) Armen B. Shanafelt

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U.S. PATENT DOCUMENTS

*		DOCUMENT NO.							DATE	NAME	CLASS	SUB-CLASS	FILING DATE IF APPROPRIATE
PM	A	5	6	9	6	2	3	4	12/09/97	Zurawski et al.	530	351	08/01/94
	B	5	2	2	9	1	0	9	07/20/93	Grimm et al.	424	85.2	04/14/92
	C	5	2	0	6	3	4	4	04/27/93	Katre et al.	530	351	01/11/88
	D	5	1	1	6	9	4	3	05/26/92	Koths et al.	530	351	05/10/88
	E	4	9	5	9	3	1	4	09/25/90	Mark et al.	435	69.1	02/07/85
	F	4	8	5	3	3	3	2	08/01/89	Mark et al.	435	252.33	12/21/84
	G	4	5	8	8	5	8	5	05/13/86	Mark et al.	424	85	09/08/84
✓	H	4	5	1	8	5	8	4	05/21/85	Mark et al.	424	85	12/20/83

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													YES	NO
PM	I	9	7	4	1	2	3	2	11/06/97	WO	C12N	15/24		
	J	9	7	3	1	6	2	2	09/04/97	WO	A61K	9/06		
	K	9	6	0	6	8	6	0	03/07/96	WO	C07K	14/54		
✓	L	8	9	0	4	6	6	5	06/01/89	WO	A61K	37/02		

OTHER REFERENCES (Including Author, Title, Date, Pertinent Pages, etc.)

PM	P	Zurawski, S.M. and Zurawski, G., Mouse interleukin-2 structure-function studies: substitutions in the first α -helix can specifically inactivate p70 receptor binding and mutations in the fifth α -helix can specifically inactivate p55 receptor binding, Embo.J., 8(9): 2583-2590 (1989)
	Q	Zurawski et al., Partial agonist/antagonist mouse interleukin-2 proteins indicate that a third component of the receptor complex functions in signal transduction, Embo.J., 9(12): 3899-3905 (1990)
✓	R	Zurawski, G., Analysing lymphokine-receptor interactions of IL-1 and IL-2 by recombinant-DNA technology, Trends Biotech., 9: 250-257 (1991)

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